

Listing of the Claims:

The following listing of the claims replaces all other listings of the claims in the application:

1. (Previously presented) An isolated polynucleotide selected from the group consisting of:

- (a) a nucleic acid sequence having at least 85% sequence identity to SEQ ID NO:1;
- (b) a nucleic acid sequence which encodes a polypeptide having at least 85% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (c) a nucleic acid sequence which encodes a polypeptide having at least 90% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (d) a nucleic acid sequence which encodes a polypeptide having at least 95% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (e) a nucleic acid sequence which encodes a polypeptide having the amino acid sequence presented in Figure 3 (SEQ ID NO:3);

wherein said isolated polynucleotide encodes a polypeptide having the biological activity of a cellulase and wherein the identity is determined by the CLUSTAL-W program in MacVector version 6.5, operated with default parameters, including an open gap penalty of 10.0, an extended gap penalty of 0.1, and a BLOSUM 30 similarity matrix.

2. (Currently amended) An isolated polynucleotide selected from the group consisting of:

- (a) a nucleic acid sequence presented as SEQ ID NO:1;
- (b) a nucleic acid sequence that hybridizes, under high stringency conditions to the sequence presented as SEQ ID NO:1;
- (c) a nucleic acid sequence presented as SEQ ID NO:2; and

- (d) a nucleic acid sequence that hybridizes, under high stringency conditions to the sequence presented as SEQ ID NO:2;
~~wherein said isolated polynucleotide encodes a polypeptide having the biological activity of a cellulase and~~ wherein hybridization is conducted at 42 °C in 50% formamide, 6X SSC, 5X Denhardt's solution, 0.5% SDS and 100 µg/ml denatured carrier DNA followed by washing two times in 2X SSPE and 0.5% SDS at room temperature and two additional times in 0.1X SSPE and 0.5% SDS at 42 °C.
3. (Currently amended) The isolated polynucleotide of claim 1 wherein the polynucleotide is selected from the group mRNA, DNA, cDNA, and genomic DNA.
4. (Original) The isolated polynucleotide of Claim 3, wherein said polynucleotide is an RNA molecule.
5. (Previously presented) The isolated polynucleotide of claim 1 encoding an enzyme having cellulase activity, wherein the enzyme is isolated from a *Bacillus* source.
6. (Canceled)
7. (Currently amended) An expression construct comprising a polynucleotide sequence encoding an amino acid sequence having cellulase activity and having at least 85% sequence identity to the amino acid sequence presented in SEQ ID NO:3, wherein the identity is determined by the CLUSTAL-W program in MacVector version 6.5, operated with default parameters, including an open gap penalty of 10.0, an extended gap penalty of 0.1, and a BLOSUM 30 similarity matrix.
8. (Previously presented) An expression vector comprising the polynucleotide of Claim 1.

9. (Previously presented) An expression vector comprising an isolated polynucleotide of Claim 1, operably linked to control sequences recognized by a host cell transformed with the vector.

10. (Previously presented) An expression vector according to Claim 9 comprising a regulatory polynucleotide sequence including a promoter sequence derived from a glucose isomerase gene of *Actinoplanes*, a signal sequence derived from a *Streptomyces* cellulase gene, and the polynucleotide sequence encoding a cellulase.

11. (Original) A vector comprising the expression construct of Claim 8.

12. (Original) A host cell transformed with the vector of Claim 8.

13. (Original) The host cell of Claim 12, which is a prokaryotic cell.

14. (Original) The host cell of Claim 12, which is a eukaryotic cell.

15. (Currently amended) A substantially purified polypeptide with the biological activity of a cellulase, comprising a sequence selected from the group consisting of:

- (a) an amino acid sequence having at least 85% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (b) an amino acid sequence having at least 90% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (c) an amino acid sequence having at least 95% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (d) an amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (e) a substantially purified biologically active fragment of the amino acid sequence presented as SEQ ID NO:3;

wherein the identity is determined by the CLUSTAL-W program in MacVector version 6.5, operated with default parameters, including an open gap penalty of

10.0, an extended gap penalty of 0.1, and a BLOSUM 30 similarity matrix.

16. (Previously presented) The substantially purified cellulase polypeptide according to Claim 15 which is obtainable from a *Bacillus*.

17. (Original) A method of producing a cellulase comprising the steps of:

- (a) culturing the host cell according to claim 12 in a suitable culture medium under suitable conditions to produce the cellulase;
- (b) obtaining said produced cellulase.

18. (Original) The method of Claim 17 wherein the host cell is a filamentous fungi or yeast cell.

19. (Original) The method of Claim 17 wherein the host cell is a bacterium.

20. (Original) The method of Claim 19 wherein the bacterium is a *Streptomyces*.

21. (Original) A purified enzyme having cellulase activity prepared by the method of Claim 17.

22-24. (Canceled)

25. (Original) A detergent composition, said composition comprising a polypeptide selected from the group consisting of:

- (a) an amino acid sequence having at least 85% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (b) an amino acid sequence having at least 90% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (c) an amino acid sequence having at least 95% sequence identity to the amino acid sequence presented in Figure 3 (SEQ ID NO:3);

- (d) an amino acid sequence presented in Figure 3 (SEQ ID NO:3);
- (e) a substantially purified biologically active fragment of the amino acid sequence presented as SEQ ID NO:3

wherein the identity is determined by the CLUSTAL-W program in MacVector version 6.5, operated with default parameters, including an open gap penalty of 10.0, an extended gap penalty of 0.1, and a BLOSUM 30 similarity matrix.

26. (Original) A detergent composition comprising a surfactant and a cellulase according to Claim 15.

27. (Original) The detergent according to claim 25, wherein said detergent is a laundry detergent.

28. (Original) The detergent according to claim 25, wherein said detergent is a dish detergent.

29. (Canceled)

30. (Original) A method of treating wood pulp comprising contacting said wood pulp with a cellulase according to claim 15.

31-33. (Canceled)